NATURAL RESOURCES CONSERVATION SERVICE

NUTRIENT MANAGEMENT (ACRE)

CODE 590

MONTANA CONSERVATION PRACTICE SPECIFICATION / JOB SHEET

UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

MT-CPA-590A
07/02

NUTRIENT INVENTORY

PRODUCER: _____ PLANNING DATE: _____

YEAR _____ TRACT _____ FIELD _____ SOIL TEXTURE _____ PRECIPATION _____

CROP _____ YIELD GOAL _____ ORGANIC MATTER _____ % pH _____

PREVIOUS CROP _____ YIELD _____ SOIL TEST **K** _____ PPM SOIL TEST **P** _____ PPM

NO_3	**P_2O_5**	**K_2O**	
	(lbs. / acre)		
_____	_____	_____	**<< M.S.U. Extension Service Fertilizer Recommendations [1]**
(–) _____			Nitrate Nitrogen Credit [2] _____ lbs./ac. (soil test)
(–) _____			Mineralization (O.M.) _____ lbs./ac.
(–) _____			1st Year Legume N Credit _____ lbs./ac.
(–) _____			2nd Year Legume N Credit _____ lbs./ac.
(–) _____	_____	_____	1st Year Manure Credit, lbs./ac. _____ Crop Year [3] _____
(–) _____			2nd Year Manure Credit, lbs./ac. _____ Crop Year [4] _____
(–) _____			3rd Year Manure Credit, lbs./ac. _____ Crop Year [4] _____
(–) _____			Irrigation Water Nitrogen Credit [5] _____ **PPM Nitrate**
			_____ Net Acre Inches Applied per Season
_____	_____	_____	**Supplemental Nutrient Needs [6]**

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[1] From Fertilizer Guidelines for Montana, Montana State University, Extension Service EB 104.

[2] From soil test analysis (NO_3).

[3] Credit nutrients to the appropriate crop year. (i.e., plan developed in January 1998 calling for spring and fall applications would not credit the fall 1998 application to the 1998 crop year. However, nutrients provided by fall 1997 application, if known, would be credited on this line).

[4] Values from Manure Nitrogen Crediting, Form MT-CPA-223.

[5] PPM Nitrate N x Acre Inches Applied x 0.2268.

[6] Amount of nutrients needed from inorganic or organic fertilizer (i.e., manure)

Job Sheet MT590-2

NO INFORMATION

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UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

MT-ECS-590B
07/02

NUTRIENT BUDGET

CODE 590

COOPERATOR: _____ **FIELD(S):** _____

ASSISTED BY: _____ _____ **DATE:** _____

JOB APPROVAL AUTHORITY

PURPOSE (check all that apply)			
Budget & supply nutrients/amendments for plant production		Utilize manure/organic materials as a nutrient source	
Minimize non-point source pollution (Water Quality)		Maintain or improve soil condition	

TABLE 1. FIELD CONDITIONS AND RECOMMENDATIONS

CROP SEQUENCE / ROTATION & YIELD (circle current crop)									
CROP	YIELD	CROP	YIELD	CROP	YIELD	CROP	YIELD	CROP	YIELD

CURRENT SOIL TEST LEVELS (PPM)									
NO_3		P		K		pH	O.M.%	E.C.	SAR

RECOMMENDED NUTRIENTS TO MEET YIELDS (EB104)			
NO_3	P_2O_5	K_2O	pH

TABLE 2. NUTRIENT SOURCES

CREDITS		N_3 POUNDS PER ACRE	P_2O_5 POUNDS PER ACRE	K_2O POUNDS PER ACRE
1.	Nitrogen credits from previous crop or legume			
2.	Residual from long-term manure application			
3.	Irrigation water			
4.	Other (mulch, rainwater, O.M., etc.)			
5.	TOTAL CREDITS		0	0

PLANT AVAILABLE NUTRIENTS APPLIED TO FIELD		BUDGET	ADJUST.	BUDGET	ADJUST.	BUDGET	ADJUST.
6.	Credits (from Row 5, above)						
7. Fertilizer	Starter						
	Other (Commercial, etc.)						
8.	Manure / Organic Materials						
9.	SUBTOTAL (SUM OF LINES 6, 7, and 8)						
10.	NUTRIENTS RECOMMENDED FOR YIELD						
11.	Nutrient Status (subtract line 10 from line 9)						
	If line 11 is a negative number, this is the amount of additional nutrients needed to meet crop recommendations.						
	If line 11 is a positive number, this is the amount by which the available nutrients exceed the crop requirements.						
12.	Additional N Needed to Offset Tie-up (MT590)		0	N rate/100#	1.00	Residue #	0
13.	Recommended Nutrient Application						
14.	Crop and Soil Nutrient Application						

Job Sheet MT590-4

NO INFORMATION

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MONTANA CONSERVATION PRACTICE JOB SHEET

FIELD SPECIFIC NUTRIENT APPLICATION PLAN

PRODUCER _____ TRACT NO. _____ FIELD NO. _____ **DATE** _____

PLANNER _____ APPROVAL _____ _____

JOB APPROVAL AUTHORITY

MANURE

YEAR	FIELD(S)	CROP	SPREADABLE ACRES [1]	RECOMMENDED TIMING		RECOMMENDED RATE 1,000 gal / ac / yr. Tons / Ac / Yr.	NUTRIENTS APPLIED AT SELECTED RATE Lbs. / Ac / Yr.		
				SEASON FALL, SPRING, FALL AND SPRING, OTHER	INCORPORATION <12 hrs, <4 days, >4 days		NO_3	P_2O_5	K_2O

FERTILIZER

YEAR	FIELD(S)	CROP	ACRES	RECOMMENDED TIMING AND AMOUNT OF NUTRIENTS (LB./AC.) [2]						NUTRIENTS APPLIED AT SELECTED RATE Lbs. / Ac / Yr.		
				PRE-PLANT (SPRING, FALL)	AMOUNT	PLANTING: STARTER	AMOUNT	SIDEDRESS	AMOUNT	NO_3	P_2O_5	K_2O

[1] Spreadable acres are less than total acres if waterways and other concentrated flow areas exist (no manure application zone).

[2] From Nutrient Budget Job Sheet, MT-ECS-590B, 07/2002.

CERTIFICATION STATEMENT:

I hereby certify that this practice has been installed in accordance with NRCS standards and specifications.

_____ _____ _____

NRCS Conservationist JOB APPROVAL AUTHORITY Date

_____ _____

Date

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FIELD SPECIFIC NUTRIENT APPLICATION PLAN

FERTILIZER

YEAR	FIELD(S)	CROP	ACRES	RECOMMENDED TIMING AND AMOUNT OF NUTRIENTS (LB./AC.) [2]						NUTRIENTS APPLIED AT SELECTED RATE Lbs. / Ac / Yr.		
				PRE-PLANT (SPRING, FALL)	AMOUNT	PLANTING: STARTER	AMOUNT	SIDEDRESS	AMOUNT	NO_3	P_2O_5	K_2O